


TO: Sieg Chencinski  
FROM: Elizabeth Deal   
Date: December 4, 2002  
RE: Search: 09/537,372

Attached are the results of the above-referenced search, regarding volatility arbitrage. If you have any questions or comments, please feel free to contact me at 305-5783.

705/30

Access DB#

81451

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: SIEG CHENCINSKI Examiner #: 79531 Date: 12-02-02  
Art Unit: 3628 Phone Number 305-6199 Serial Number: 09/537,372  
Mail Box and Bldg/Room Location: PKS 7040 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: ACTIVE ACCOUNT MANAGEMENT USING VOLATILITY ARBITRAGE

Inventors (please provide full names): LLOYD A. GROVEMAN

RICHARD L. ZACK

Earliest Priority Filing Date: 03/24/00

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

*please see 2-page attachment*

11/17/01  
11/13/01

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: _____	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
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Date Completed: _____	Litigation _____	Lexis/Nexis _____
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Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

09/537,372

Filing Date: 03/24/00

No claim for earlier effective Filing Date

2 Applicants - 1. Groverman  
2. Zech

## KEY WORDS & EXPRESSIONS

ACTIVELY)

MANAGING

ACCOUNT

EQUITY(IES)

VOLATILITY ARBITRAGE) OF EQUITY INVESTMENTS

HARVESTING

TRACKING BASKET

INDEX

UNDERLY(ING)

CORRELATION

VOLATILITY DIFFERENTIAL

MINIMIZE/MINIMIZE (VOLATILITY DIFFERENTIAL)

DYNAMIC

HEDGING

OPTIONS (TO BUY OR SELL <sup>FINANCIAL OWNERSHIP</sup> EQUITIES / STOCK SHARES)

OPTIMIZATION ROUTINE (MATHEMATICAL)

CONSTRAINT (IN THE OPTIMIZATION ROUTINE)

REGRESSION ANALYSIS (MATHEMATICAL)

$r^2$

PREDETERMINED CRITERIA

CALL OPTIONS

PUT OPTIONS

NOMINAL AMOUNT <sup>SYN'S</sup> = THEORETICAL OR SPECULATIVE, CONCEPTUAL

## KEY WORDS - p. 2

\* DELTA = DIFFERENCE OR CHANGE

→ See DICTIONARY OF FINANCE.

\* DELTA HEDGING

DELTA - A MEASURE OF THE RELATIONSHIP BETWEEN AN OPTION PRICE AND THE UNDERLYING FUTURE CONTRACT OR STOCK PRICE.

\* SKEW ANALYSIS

\* LONG PUT

\* DISPERSION

\* RE-ASSESSMENT

\* PREDETERMINED CRITERIA